

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office O I P E INFORMATION DISCLOSURE STATEMENT BY APPLICANT MAR 30 2006 Use several sheets if necessary)								ATTY. DOCKET NO. 1309.43490X00	SERIAL NO. 101049,895 10/769,805
								APPLICANT K. TAMURA, et al	
								FILING DATE February 3, 2004	GROUP 2186

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP		6	1	4	5	0	2	8	11/00	Shank et al.			
HBP		6	6	8	4	3	1	3	1/04	Voigt et al			
HBP	2 0 0 2	0	0	1	9	9	0	9	2/02	D'Errico			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
		1	3	5	7	4	7	6					YES	NO
HBP	1	3	5	7	4	7	6		10/03	European				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER /Hetul Patel/	DATE CONSIDERED 06/29/2006
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EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])



FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

1309.43490X00

SERIAL NO.

107649,005 10/769,805

APPLICANT
K. TAMURA, et al

FILING DATE
February 3, 2004

GROUP
2186

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP		4	0	2	5	9	0	4	5/77	Adney et al			
		5	4	0	8	4	6	5	4/95	Gusella et al			
		5	4	5	9	8	5	7	10/95	Ludlam et al			
		5	6	8	0	5	8	0	10/97	Beardsley et al			
		5	8	7	0	5	3	7	2/99	Kern et al			
		5	8	9	5	4	8	5	4/99	Loechel et al			
		5	9	1	7	7	2	3	6/99	Binford			
		5	9	5	6	7	5	0	9/99	Yamamoto, et al			
↓		6	0	1	2	1	2	3	1/00	Pecone et al			
		6	0	9	8	1	2	9	7/00	Fukuzawa et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
														YES	NO	
HBP	1	0	2	8	3	2	7	2	10/98	Japan					XX	
HBP	2000	2	9	3	3	1	7		10/00	Japan					XX	
HBP	2001	0	6	7	1	8	7		3/01	Japan					XX	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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(Form PTO-1449 (6-4))

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP	6 1 7 3 3 7 4	1/01	Heil, et al			
	6 2 1 9 7 5 3	4/01	Richardson			
	6 2 4 7 0 9 9	6/01	Skazinski et al			
	6 2 4 7 1 0 3	6/01	Kern et al			
	6 4 4 6 1 4 1	9/02	Nolan et al			
	6 4 4 6 1 7 5	9/02	West et al			
	6 4 8 4 1 7 3	11/02	O'Hare, et al			
	6 4 9 0 6 5 9	12/02	McKean et al			
	6 5 2 3 0 9 6	2/03	Sanada et al			
✓	6 5 2 9 9 7 6	3/03	Fukuzawa et al			
	6 5 5 3 4 0 8	4/03	Merrell et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
							YES	NO
HBP	2 0 0 2	1 5 7 0 9 1	5/02	Japan			XX	
HBP	2 0 0 2	2 3 0 2 4 6	8/02	Japan			XX	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	White Paper, "Network Attached Storage in the Data Protection Environment", Sony Electronics Inc., Feb. 2002, pp. 1-23.
	S. Sicola, "SCSI-3 Fault Tolerant Controller Configurations Utilizing SCC & New Event Codes", High Availability Study Group, Doc. No. X3T10 95-312r3, Rev. 3.0, Feb. 28, 1996, pp. 1-4.

EXAMINER /Hetul Patel/ DATE CONSIDERED 06/29/2006

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APPLICANT K. TAMURA, et al										
FILING DATE February 3, 2004								GROUP 2186		

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBD	6	6	4	0	2	7	8		10/03	Nolan et al			
	6	6	4	7	4	7	4		11/03	Yanai et al			
	6	6	5	4	8	3	0		11/03	Taylor et al			
	6	6	5	4	8	3	1		11/03	Otterness et al			
	6	6	7	5	2	5	8		1/04	Bramhall et al			
	6	6	8	1	3	3	9		1/04	McKean et al			
	6	6	8	4	3	1	0		1/04	Anzai et al			
	6	7	4	5	2	8	1		6/04	Saegusa			
	6	7	9	9	2	5	5		9/04	Blumenau et al			
	6	8	5	1	0	2	0		2/05	Matsumoto et al			
V	6	8	8	3	0	6	4		4/05	Yoshida et al			

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						YES	NO

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	HBP	2 0 0 1	0	0	5	0	9	1	5	12/01	O'Hare et al			
	HBP	2 0 0 1	0	0	5	2	0	1	8	12/01	Yokokura			
	HBP	2 0 0 2	0	0	0	4	8	5	7	1/02	Arakawa et al			
	HBP	2 0 0 2	0	1	3	3	7	3	5	9/02	McKean et al			
	HBP	2 0 0 2	0	1	5	6	8	8	7	10/02	Hashimoto			
	HBP	2 0 0 3	0	0	3	7	0	7	1	2/03	Harris et al			
			6	3	5	6	9	7	7	3/02	Ofek et al			

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EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP	2 0 0 3	0	0	5	1	1	0	9	3/03	Cochran				
HBP	2 0 0 3	0	0	5	6	0	3	8	3/03	Cochran				
HBP	2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire				
HBP	2 0 0 3	0	1	0	1	2	2	8	5/03	Busser et al				
HBP	2 0 0 3	0	1	1	5	4	3	2	6/03	Biessener et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
														YES	NO	
HBP		1	4	1	6	0	6	2	5/03	China					Eng. Trans.	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

HBP	"SAN Virtualization Guidelines", DataCore Software Corporation, 2000, pp. 1-9.

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HBP	2 0 0 3	0	1	2	6	3	2	7	7/03	Pesola et al			
HBP	2 0 0 3	0	1	4	5	1	6	8	7/03	LeCrone et al			
HBP	2 0 0 3	0	1	5	8	9	9	9	8/03	Hauck et al			
HBP	2 0 0 3	0	1	6	7	4	1	9	9/03	Yanai et al			
HBP	2 0 0 3	0	2	0	0	3	8	7	10/03	Urabe et al			
HBP	2 0 0 3	0	2	0	4	5	9	7	10/03	Arakawa et al			
HBP	2 0 0 3	0	2	1	2	8	6	0	11/03	Jiang et al			

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
													YES	NO	

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									1309.43490X00	10/769,805 10/649,835	
									APPLICANT K. TAMURA, et al		
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP	2 0 0 4	0	0	0	3	0	2	2	1/04	Garrison et al			
HBP	2 0 0 4	0	0	4	9	5	5	3	3/04	Iwamura et al			
HBP	2 0 0 4	0	0	5	4	8	5	0	3/04	Fisk			
HBP	2 0 0 4	0	0	6	4	6	1	0	4/04	Fukuzawa et al			
HBP	2 0 0 4	0	0	6	4	6	4	1	4/04	Kodama			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP	2 0 0 4	0	1	2	3	1	8	0	6/04	Soejima, et al				
HBP	2 0 0 4	0	1	4	3	8	3	2	7/04	Yamamoto, et al				
HBP	2 0 0 4	0	1	4	8	4	4	3	7/04	Achiwa et al				
HBP	2 0 0 4	0	1	7	2	5	1	0	9/04	Nagashima et al				
HBP	2 0 0 4	0	2	3	0	9	8	0	11/04	Koyama et al				
HBP	2 0 0 4	0	2	6	0	8	7	5	12/04	Murotani et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
								YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Introduction to Storage Pooling, Consolidation Storage Resources with DataCore SANsymphony Software" White Paper, DataCore Software, updated July 2003, pp. 1-8.
EXAMINER	/Hetul Patel/

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)								ATTY. DOCKET NO.	SERIAL NO. 10/769,805
								1309.43490X00	10/049,895
								APPLICANT K. TAMURA, et al	
								FILING DATE February 3, 2004	GROUP 2186

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5	1	5	5	8	4	5					
HBP		5	0	2	6	0	9	6	10/92	Beal et al			
HBP	2 0 0 4	0	2	6	0	9	6	6	12/04	Kaiya et al			
HBP	2 0 0 2	0	0	2	9	3	2	6	3/02	Reuter et al			
HBP	2 0 0 2	0	0	0	3	0	2	2	1/02	Csida et al			
HBP	2 0 0 2	0	0	2	6	5	5	8	2/02	Reuter et al			
HBP	2 0 0 2	0	0	1	9	9	2	0	2/02	Reuter et al			
HBP	2 0 0 2	0	0	1	9	9	2	2	2/02	Reuter et al			
HBP	2 0 0 2	0	0	1	9	9	2	3	2/02	Reuter et al			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6	1	9	5	7	3	0	2/01	West				
HBP	2 0 0 2	0	0	1	9	9	0	8	2/02	Reuter et al				
HBP	2 0 0 2	0	0	6	5	8	6	4	5/02	Hartsell, et al				
HBP	2 0 0 2	0	0	8	7	5	4	4	7/02	Selkirk, et al				
HBP	2 0 0 2	0	1	0	3	8	8	9	8/02	Markson, et al				
HBP	2 0 0 2	0	1	1	2	1	1	3	8/02	Karpoff, et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		YES	NO											
HBP	9	7	0	9	6	7	6		3/97	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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HBP	2 0 0 2	0	1	5	6	9	8	4	10/02	Padovano				
HBP	2 0 0 2	0	1	5	6	9	8	7	10/02	Gajjar, et al				
HBP	2 0 0 2	0	1	7	8	3	3	5	11/02	Selkirk, et al				
HBP	2 0 0 2	0	1	8	8	5	9	2	12/02	Leonhardt, et al				
HBP	2 0 0 5	0	2	4	0	7	4	1	10/05	Nagasawa et al				
		5	9	7	8	8	9	0	11/99	Ozawa et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
														YES	NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

HBP	P. Sarkar, et al "Internet Protocol Storage Area Networks", IBM Systems, Journal, vol. 42, No. 2, 2003, pp. 218-231.
HBP	E. Anderson, et al, "Hippodrome: Running Circles Around Storage Administration", Hewlett-Packard Laboratories, pp. 14.

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HBP	2 0 0 4	0	0	8	8	4	1	7	5/04	Bober, et al				
HBP	2 0 0 3	0	0	9	3	5	6	7	5/03	Lolayekar, et al				
HBP	2 0 0 4	0	0	6	8	6	3	7	4/04	Nelson et al				
HBP	2 0 0 3	0	2	2	9	6	4	5	12/03	Nelson et al				
HBP	2 0 0 5	0	0	3	3	8	7	8	2/05	Mogi et al				
HBP	2 0 0 4	0	1	3	9	2	3	7	7/04	Pangal et al				
HBP	2 0 0 3	0	1	1	5	2	1	8	6/03	Bobbit et al				

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		6	8	5	7	0	5	7	2/05	Nelson et al			
		6	9	7	3	5	4	9	12/05	Testardi			
↓		6	9	7	6	1	0	3	12/05	Watanabe et al			
		3	7	7	1	1	3	7	11/73	Barner et al			

FOREIGN PATENT DOCUMENTS

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		YES	NO												
HBP	0	3	0	2	3	6	4	0	3/03	PCT					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

HBP	JP 10-508967 (PCT equivalent WO 97/09676).

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HBP		6	6	2	2	2	2	0	9/03	Yoshida et al			
		6	6	4	7	3	8	7	11/03	McKean et al			
		6	7	7	2	3	1	5	8/04	Perego			
	R	E	3	7	3	0	5		7/01	Chang et al			
	2	0	1	3	8	1	8	4	6/05	Amir			
	2	0	0	5	4	8	6	6	3/04	Blumenau et al			
	2	0	0	2	8	0	4	3	2/04	Maveli et al			
↓	2	0	0	2	8	0	4	3					

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
													YES	NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

HBP	"SANRAD Application Note: Migrating Individual Servers to an iSCSI SAN", APP-004-01, SANRAD 2003, pp. 1-15.
HBP	"SANRAD Application Note: Data Migration Solution Transferring Data Between Storage Systems Over Fibre-Channel or SCSI Connections, APP-003-03, SANRAD 2003, pp. 1-9.
HBP	"White Paper – Celerra Data Migration Service (CDMS)", EMC Corporation, Jan. 2002, pp. 1-13.

EXAMINER	/Hetul Patel/	DATE CONSIDERED	06/29/2006
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(Form PTO-1449 (6-4))

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use several sheets if necessary)</small>									ATTY. DOCKET NO. 1309.43490X00	SERIAL NO. 10/769,805 10/049,095
									APPLICANT K. TAMURA, et al	
									FILING DATE February 3, 2004	GROUP 2186

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP	2 0 0 1	0	0	5	4	1	3	3	12/01	Murotani et al				
HBP	2 0 0 2	0	1	2	4	1	0	8	9/02	Terrell et al				
HBP	2 0 0 3	0	2	0	4	7	0	0	10/03					
HBP	2 0 0 5	0	0	1	0	7	4	3	01/05	Tremblay et al				
HBP	4	7	1	0	8	6	8	12/87	Cocke et al					
HBP	6	3	4	1	3	2	9	1/02	LeCrone et al					
HBP	6	6	8	1	3	0	3	1/04	Watabe et al					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT		
															YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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								APPLICANT		
								K. TAMURA, et al		
								FILING DATE	GROUP	
								February 3, 2004	2186	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HBP		5	7	5	8	1	1	8	5/98	Choy et al	711	114	
		5	8	3	5	9	5	4	11/98	Duyanovich et al	711	162	
		6	1	0	8	7	4	8	8/00	Ofek et al	711	112	
		6	2	3	0	2	3	9	5/01	Sakaki et al	711	112	
		6	2	4	0	4	8	6	5/01	Ofek et al	711	112	
		6	4	5	7	1	3	9	9/02	D'Errico et al	714	5	
		6	6	4	0	2	9	1	10/03	Fujibayashi et al	711	162	
	↓	6	8	2	6	7	7	8	11/04	Bopardikar et al	725	145	
		6	8	1	6	9	4	8	11/04	Kitamura et al	711	152	

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
		YES	NO											
HBP	1	1	3	0	5	1	4		9/01	European				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5	5	4	8	7	1	2							
HBP		5	6	8	0	6	4	0	8/96	Larson et al	714	7			
		2	0	1	9	4	5	2	3	10/97	Ofek et al	710	19		
		0	0	0	0	0	0	0	12/02	Ulrich et al	714	4			
		2	0	1	8	2	5	2	5	9/03	O'Connell et al	711	162		
		0	0	0	8	1	0	0	9	4/05	Williams et al	711	163		
		0	0	0	1	0	7	3	4	1/05	Soejima et al	711	163		
		0	0	0	4	5	1	6	9	7/03	Nagasawa et al	711	117		
V		2	0	1	5	1	1	2	1	5/06	H. Ohno, et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
														YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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